

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for reducing the effect of multiple dominant pilots in a CDMA communication system comprising the steps of:

locating a ~~fixed~~ transceiver element in a high density area of multiple dominant pilots;

linking said transceiver element with ~~a~~ only one of a plurality of nearby base stations for transporting and amplifying signals between said transceiver element and said linked nearby base station until the linked nearby base station ~~is a~~ becomes the dominant pilot signal; and~~[-]~~

transmitting from said fixed transceiver element forward link signals of a first nearby sector associated with said linked nearby base station.

2. (Currently Amended) The method as recited in claim 1 further comprising the step of receiving reverse link signals at said transceiver element for said first nearby sector associated with said linked nearby base station.

3. (Canceled)

4. (Original) The method as recited in claim 1 wherein the step of linking comprises linking by a wired connection.

5. (Original) The method as recited in claim 1 wherein the step of linking further comprises linking by a wireless connection.

6. (Currently Amended) The method as recited in claim 1 wherein the step of transmitting further comprises transmitting from said transceiver element with less power than transmitting from said first nearby sector associated with said linked nearby base station.

7. (Original) The method as recited in claim 6 wherein less power is approximately 10 dB less power.

8. (Currently Amended) The method as recited in claim 1 wherein said transceiver element ~~can be~~is selectively associated with a ~~different~~second nearby sector associated with said linked nearby base station.

9. (Currently Amended) The method as recited in claim 1 wherein said transceiver element ~~can be~~is selectively associated with a ~~different~~second nearby base station.

10. (Original) The method as recited in claim 1 wherein said transceiver element is a simulcasting element.

11. (Original) The method as recited in claim 1 wherein said transceiver element is an omni-directional base station.

12. (Currently Amended) A method for reducing the effect of multiple dominant pilots in a CDMA communication system comprising the steps of:

selecting at least one area having a high density area of multiple dominant CDMA pilots;

locating a ~~fixed~~ transceiver element in said selected ~~at least one area~~;

linking said ~~fixed~~ transceiver element with a only one of a plurality of nearby base stations ~~for transporting forward link signals between said transceiver element and said nearby base station~~; and~~[-]~~

transmitting from said ~~fixed~~ transceiver element forward link signals ~~of a to~~ said linked nearby base station.

13. (Currently Amended) The method as recited in claim 12 wherein the ~~step of transmitting further comprises transmitting~~ forward link signals are forward link signals of a nearby sector associated with said linked nearby base station.

14. (Original) The method as recited in claim 12 wherein said transceiver element is a simulcasting element.

15. (Original) The method as recited in claim 12 wherein said transceiver element is an omni-directional base station.

16. (Currently Amended) The method as recited in claim 12 further comprising the step of receiving reverse link signals at said transceiver element for ~~said a~~ nearby sector associated with said nearby base station.

17. (Currently Amended) The method as recited in claim 12 wherein the step of linking further comprises linking by a wired connection.

18. (Original) The method as recited in claim 12 wherein the step of linking further comprises linking by a wireless connection.

19. (Currently Amended) The method as recited in claim 12 wherein the step of transmitting ~~further comprises transmitting from said transceiver element~~ transmits with less power than ~~transmitting from said~~ a transmission from a nearby sector associated with said linked nearby base station.

20. (Currently Amended) The method as recited in claim 19 wherein the less power is approximately 10 dB less power.

21. (Currently Amended) The method as recited in claim 14 wherein said simulcasting element ~~can be~~ is selectively associated with a different nearby sector associated with said nearby base station.

22. (Currently Amended) The method as recited in claim 14 wherein said simulcasting element ~~can be~~ is selectively associated with a different nearby base station.

23. (Currently Amended) An apparatus for reducing the effect of multiple dominant pilots in a CDMA transmission system comprising:

a ~~fixed~~ transceiver located in an area of multiple dominant CDMA pilots wherein said ~~fixed~~ transceiver transmits forward link signals of a only one of a plurality of nearby base stations;

a base station having an associated sector near said ~~fixed~~ transceiver; and

linking means coupling said ~~fixed~~ transceiver to said base station for enabling transporting signals between said ~~fixed~~ transceiver and said base station, and wherein said transceiver increases the signals strength of the signals of the one of the plurality of nearby base stations ~~signals so as to reduce the number of dominant pilots and thereby the effect of multiple dominant pilots on the CDMA system.~~

24. (Original) The apparatus as recited in claim 23 wherein said transceiver is a repeater.

25. (Original) The apparatus as recited in claim 23 wherein said transceiver is an omni-directional base station.

26. (Original) The apparatus as recited in claim 23 wherein said transceiver transmits with less power than said base station.

27. (Currently Amended) The apparatus as recited in claim 24 wherein said repeater further comprises a receiver for receiving reverse link signals.

28. (Currently Amended) A method for reducing the number of dominant pilots in a CDMA system where the signal levels of such pilots within a particular geographical area interfaces with the systems ability to secure and to hand-off calls to other cells comprising of:

determining the location within a geographical area where ~~a~~ at least two of a plurality of interfering pilot signals exceed a ~~pre-determined~~ given dB threshold level ~~as compared to the level of one of the dominant signals,~~

placing within the determined location a simulcasting element for boosting the signal level of ~~the one dominant signal to a predetermined~~ only one of the plurality of interfering pilot signals level; so that the dominant pilot, and

utilizing said simulcasting element to carry all signals from the cell served by the ~~one~~ boosted interfering pilot ~~dominant~~ signal.

29. (Previously Submitted) The method of claim 28 wherein the simulcasting element is a repeater.

30. (Currently Amended) The method of claim 28 wherein the ~~predetermined~~ given dB threshold level is within a range of 3 to 6 dB of the local signal strength.

31. (Currently Amended) The method of claim 28 wherein the ~~one dominant signal~~ boosted interfering pilot signal is the local signal from a cell within the geographical area.

32. (Previously Submitted) The method of claim 28 wherein the simulcasting element is an omni-directional cell.

33. (Currently Amended) The method of claim 31 wherein said simulcasting element receives forward link as well as reverse link signals said cell within the geographical area.

34. (Currently Amended) The method of claim 31 further including a wired link connecting said simulcasting element to said cell.

35. (Currently Amended) The method of claim 31 further including a wireless link connecting said simulcasting element to said cell.

36. (New) A method of reducing interference, comprising:
 locating a transceiver element in an area of multiple dominant pilot signals;
and
 transmitting, at the transceiver element, only one of the multiple dominant pilot signals so that the pilot signal transmitted by the transceiver element becomes the only dominant pilot signal.

37. (New) The method of claim 36, further comprising:
 transmitting, at the transceiver element, forward link signals of the base station associated with the pilot signal transmitted by the transceiver element.